

D9 Series

Heavy Duty Hydraulic Motor



D9 (All Series)

For Heavy Duty Applications

OVERVIEW

The D9 Series of motor is the largest member of the White Drive Product's family. The product is capable of producing torque values comparable to competitive motors, but with an industry leading breadth of displacements and shaft and porting options. In addition, the product incorporates dual tapered roller bearings, which improve load carrying capabilities. The motor is designed for use with a case-drain, which reduces pressure on the shaft seal and maintains lubrication to internal drive components, maximizing motor life. The series is available with industry standard mounting flanges found throughout the global market place.

FEATURES / BENEFITS

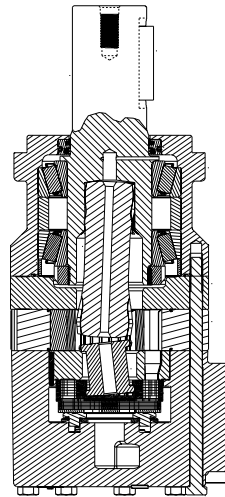
- Industry Standard Mounting Flanges that satisfy the global market place.
- Dual Tapered Roller Bearings improve load carrying capability.
- Nine Displacement Options provide industry leading design flexibility.
- Roller Stator® Design incorporates 8 lobe rotor and 9 pocket stator technology.

TYPICAL APPLICATIONS

Construction equipment, agricultural equipment, mining equipment, forestry equipment, associated attachments and more

SERIES DESCRIPTIONS

800 - Hydraulic Motor
Standard



SPECIFICATIONS

CODE	Displacement cm ³ [in ³ /rev]	Max. Speed rpm		Max. Flow lpm [gpm]		Max. Torque Nm [lb-in]		Max. Pressure bar [psi]		
		cont.	inter.	cont.	inter.	cont.	inter.	cont.	inter.	peak
260	256 [15.6]	520	700	136 [36]	182 [48]	763 [6750]	891 [7885]	207 [3000]	241 [3500]	259 [3750]
300	294 [17.9]	530	688	159 [42]	204 [54]	870 [7700]	1017 [9000]	207 [3000]	241 [3500]	259 [3750]
375	367 [22.4]	550	613	204 [54]	227 [60]	1099 [9725]	1284 [11365]	207 [3000]	241 [3500]	259 [3750]
450	455 [27.8]	445	496	204 [54]	227 [60]	1349 [11934]	1571 [13907]	207 [3000]	241 [3500]	259 [3750]
525	525 [32.1]	385	430	204 [54]	227 [60]	1569 [13888]	1824 [16143]	207 [3000]	241 [3500]	259 [3750]
625	623 [38.1]	325	361	204 [54]	227 [60]	1883 [16660]	2183 [19317]	207 [3000]	241 [3500]	259 [3750]
735	734 [44.8]	276	308	204 [54]	227 [60]	1815 [16063]	2165 [19156]	172 [2500]	207 [3000]	241 [3500]
910	911 [55.6]	223	250	204 [54]	227 [60]	2290 [20265]	2713 [24008]	172 [2500]	207 [3000]	241 [3500]
1K0	1027 [62.7]	197	220	204 [54]	227 [60]	2055 [18186]	2535 [22434]	138 [2000]	172 [2500]	207 [3000]

► Performance data is typical. Performance of production units varies slightly from one motor to another. See page 10.03 for additional information on product testing. Running at intermittent ratings should not exceed 10% of every minute of operation.

D9 Series

Heavy Duty Hydraulic Motor



D9 (All Series)

For Heavy Duty Applications

DISPLACEMENT PERFORMANCE

Pressure - bar [psi]										Max. Cont.	Max. Inter.
260										207 [3000]	241 [3500]
256 cm ³ [15.6 in ³] / rev										Intermittent Ratings - 10% of Operation	
Torque - Nm [lb-in], Speed rpm											
Flow - lpm [gpm]	8 [2]	39 [341] 27	97 [858] 26	213 [1883] 24	328 [2900] 21	441 [3903] 19	552 [4886] 15	661 [5848] 12		30	Theoretical rpm
	23 [6]		108 [958] 84	233 [2058] 81	358 [3169] 78	482 [4263] 74	601 [5322] 70	718 [6351] 66	830 [7349] 62	89	
	45 [12]		112 [992] 171	241 [2134] 168	372 [3289] 164	502 [4439] 159	630 [5572] 153	755 [6679] 146	877 [7761] 139	178	
	68 [18]		110 [976] 258	241 [2132] 255	373 [3297] 250	506 [4477] 245	635 [5617] 237	764 [6760] 230	891 [7885] 222	267	
	91 [24]		105 [929] 346	236 [2091] 342	370 [3270] 338	502 [4441] 331	631 [5587] 324	761 [6738] 315	890 [7878] 306	355	
	114 [30]		97 [855] 434	229 [2024] 430	359 [3178] 425	494 [4374] 419	627 [5544] 412	757 [6700] 402	883 [7818] 388	444	
	136 [36]		87 [768] 522	218 [1933] 518	352 [3115] 512	483 [4271] 505	617 [5463] 497	750 [6633] 488	878 [7766] 477	533	
	159 [42]		76 [669] 611	206 [1827] 607	340 [3009] 601	474 [4194] 594	608 [5376] 585	738 [6535] 576		622	
	182 [48]		62 [546] 701	193 [1712] 696	327 [2891] 690	460 [4070] 683	594 [5257] 674	726 [6426] 664		710	
	Max. Cont.										
	Max. Inter.										
Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐											
Theoretical Torque - Nm [lb-in]											
70 [622]											
140 [1243]											
281 [2486]											
421 [3729]											
562 [4972]											
702 [6215]											
843 [7458]											
983 [8701]											
Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]											
Rotor Width											
22.2 [.872]											
mm [in]											

Pressure - bar [psi]										Max. Cont.	Max. Inter.
300										207 [3000]	241 [3500]
294 cm ³ [17.9 in ³] / rev										Intermittent Ratings - 10% of Operation	
Torque - Nm [lb-in], Speed rpm											
Flow - lpm [gpm]	8 [2]	52 [458] 23	119 [1053] 21	252 [2234] 19	382 [3379] 16	511 [4521] 12	636 [5633] 9			26	Theoretical rpm
	23 [6]		127 [1124] 72	268 [2376] 68	410 [3625] 65	549 [4854] 60	686 [6069] 55	819 [7250] 50	949 [8398] 45	78	
	45 [12]		130 [1152] 147	275 [2434] 143	422 [3731] 138	568 [5025] 132	713 [6313] 125	856 [7578] 119	996 [8815] 113	155	
	68 [18]		129 [1141] 222	277 [2452] 218	427 [3777] 213	575 [5092] 206	722 [6392] 199	869 [7690] 191	1013 [8961] 183	232	
	91 [24]		124 [1097] 298	274 [2422] 294	424 [3753] 288	573 [5074] 281	722 [6390] 272	871 [7707] 264	1019 [9014] 255	310	
	114 [30]		115 [1022] 375	266 [2356] 371	418 [3700] 364	569 [5032] 357	719 [6362] 348	867 [7673] 339	1016 [8987] 330	387	
	136 [36]		104 [924] 453	255 [2256] 448	407 [3601] 442	559 [4947] 434	710 [6279] 426	860 [7615] 416	1009 [8925] 405	464	
	159 [42]		92 [814] 530	242 [2144] 525	395 [3498] 517	547 [4845] 509	699 [6183] 500	848 [7506] 490	999 [8837] 480	541	
	182 [48]		78 [686] 608	227 [2011] 602	379 [3357] 595	533 [4715] 586	685 [6062] 577	838 [7414] 566		619	
	204 [54]		61 [543] 688	212 [1872] 682	364 [3219] 674	518 [4582] 665	670 [5932] 655	822 [7272] 644		696	
	Max. Cont.										
	Max. Inter.										
Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐											
Theoretical Torque - Nm [lb-in]											
81 [714]											
161 [1428]											
323 [2855]											
484 [4283]											
645 [5710]											
807 [7138]											
968 [8566]											
1129 [9993]											
Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]											
Rotor Width											
25.4 [1.002]											
mm [in]											

► Performance data is typical. Performance of production units varies slightly from one motor to another. See page 10.03 for additional information on product testing.

Heavy Duty Hydraulic Motor



For Heavy Duty Applications

DISPLACEMENT PERFORMANCE

[illegible]

Cross Hydraulics Pty Ltd

D9 Series



Heavy Duty Hydraulic Motor

D9 (All Series)
For Heavy Duty Applications

DISPLACEMENT PERFORMANCE

Pressure - bar [psi]										Max. Cont.	Max. Inter.
525										207 [3000]	241 [3500]
525 cm ³ [32.1 in ³] / rev										Intermittent Ratings - 10% of Operation	
Torque - Nm [lb-in], Speed rpm											
Flow - lpm [gpm]	8 [2]	105 [929]	230 [2031]	472 [4175]	707 [6257]	940 [8317]				15	Theoretical rpm
	23 [6]	112 [995]	243 [2148]	504 [4460]	755 [6683]	1004 [8886]	1240 [10976]	1479 [13087]		44	
	45 [12]	112 [989]	245 [2165]	512 [4529]	778 [6887]	1041 [9212]	1296 [11468]	1543 [13653]		87	
	68 [18]	105 [927]	238 [2107]	508 [4497]	779 [6890]	1045 [9251]	1306 [11560]	1560 [13804]	1793 [15869]	130	
	91 [24]	93 [824]	226 [2002]	496 [4394]	767 [6789]	1038 [9189]	1306 [11558]	1569 [13888]	1824 [16143]	173	
	114 [30]	79 [696]	212 [1874]	484 [4283]	755 [6683]	1026 [9079]	1295 [11457]	1560 [13809]	1819 [16097]	217	
	136 [36]		193 [1710]	465 [4141]	736 [6513]	1007 [8912]	1279 [11318]	1549 [13706]	1811 [16023]	260	
	159 [42]		170 [1504]	444 [3925]	715 [6330]	986 [8726]	1257 [11125]	1526 [13507]	1793 [15864]	303	
	182 [48]		147 [1305]	420 [3716]	692 [6120]	961 [8509]	1233 [10914]	1505 [13321]	1772 [15682]	346	
	204 [54]		118 [1041]	390 [3450]	661 [5850]	934 [8269]	1205 [10660]	1475 [13050]	1741 [15411]	389	
227 [60]		88 [778]	359 [3181]	631 [5582]	902 [7980]	1174 [10386]	1443 [12768]		433		
Overall Efficiency - 70 - 100% 40 - 69% 0 - 39%											
Theoretical Torque - Nm [lb-in]											
114 [1276]										2019 [17870]	
Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]											

Pressure - bar [psi]										Max. Cont.	Max. Inter.						
625										17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	241 [3500]
623 cm ³ [38.1 in ³] / rev										Intermittent Ratings - 10% of Operation							
Torque - Nm [lb-in], Speed rpm																	
Flow - lpm [gpm]	8 [2]	132 [1169] 10	273 [2419] 10	553 [4896] 8	832 [7365] 7	1105 [9778] 6				13	Theoretical rpm						
	23 [6]	144 [1273] 34	300 [2656] 34	609 [5393] 32	916 [8102] 31	1204 [10655] 28	1479 [13090] 21			37							
	45 [12]	141 [1247] 70	303 [2682] 69	624 [5521] 67	945 [8362] 66	1249 [11049] 56	1559 [13797] 58	1846 [16339] 53		73							
	68 [18]	133 [1179] 106	295 [2613] 105	619 [5478] 104	942 [8340] 101	1263 [11180] 98	1576 [13949] 93	1877 [16607] 86	2166 [19168] 79	110							
	91 [24]	120 [1061] 142	281 [2486] 141	607 [5368] 140	932 [8251] 137	1255 [11102] 133	1572 [13913] 128	1882 [16659] 121	2183 [19317] 113	146							
	114 [30]	100 [886] 178	261 [2309] 177	586 [5183] 175	910 [8053] 172	1234 [10916] 167	1552 [13738] 161	1860 [16456] 155	2172 [19220] 148	183							
	136 [36]	78 [694] 214	238 [2106] 213	562 [4971] 211	888 [7859] 208	1213 [10731] 203	1533 [13571] 197	1839 [16274] 190	2189 [19369] 181	219							
	159 [42]	53 [469] 251	210 [1855] 250	532 [4711] 248	857 [7585] 245	1183 [10471] 240	1506 [13325] 234	1827 [16171] 227	2143 [18968] 219	255							
	182 [48]		180 [1591] 287	503 [4453] 285	827 [7315] 281	1151 [10189] 277	1475 [13050] 270	1795 [15888] 262	2114 [18706] 254	292							
	204 [54]		146 [1295] 324	470 [4155] 322	793 [7021] 318	1118 [9898] 313	1440 [12742] 306	1758 [15558] 299	2078 [18392] 291	328							
Max. Max. Inter. Cont.	227 [60]		111 [982] 361	433 [3829] 359	756 [6693] 355	1080 [9555] 349	1401 [12401] 343	1722 [15238] 335		365							
Overall Efficiency - 70 - 100% 40 - 69% 0 - 39%																	
Rotor Width																	
54.0 [2.127]																	
mm [in]																	
Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]																	

► Performance data is typical. Performance of production units varies slightly from one motor to another. See page 10.03 for additional information on product testing.

D9 Series



Heavy Duty Hydraulic Motor

D9 (All Series)
For Heavy Duty Applications

DISPLACEMENT PERFORMANCE

		Pressure - bar [psi]					Max. Cont.	Max. Inter.	
735		17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]	
734 cm ³ [44.8 in ³] / rev		Intermittent Ratings - 10% of Operation							
Flow - lpm [gpm]	Max. Max. Inter. Cont.	Torque - Nm [lb-in], Speed rpm							
		158 [1395] 9	328 [2900] 9	667 [5904] 8	1006 [8902] 7	1344 [11890] 6		11	
		165 [1460] 29	347 [3074] 29	710 [6282] 27	1061 [9389] 26	1401 [12397] 20	1739 [15391] 13	31	
		163 [1445] 60	350 [3095] 59	722 [6387] 57	1089 [9635] 54	1440 [12747] 51	1775 [15711] 37	62	
		155 [1374] 90	343 [3036] 89	721 [6377] 87	1093 [9675] 84	1458 [12900] 79	1813 [16045] 75	93	
		141 [1245] 120	329 [2914] 119	708 [6267] 117	1085 [9606] 113	1455 [12872] 108	1815 [16063] 103	124	
		119 [1050] 151	307 [2714] 150	685 [6065] 147	1063 [9409] 143	1435 [12699] 137	1799 [15917] 131	155	
		93 [823] 182	282 [2491] 181	660 [5841] 178	1039 [9191] 173	1413 [12504] 167	1779 [15740] 160	186	
			248 [2193] 213	629 [5562] 209	1010 [8934] 205	1388 [12280] 198	1760 [15574] 191	217	
			215 [1905] 244	595 [5263] 240	975 [8626] 235	1356 [11998] 228	1732 [15330] 221	248	
Rotor Width	mm [in]		176 [1558] 276	555 [4913] 272	936 [8286] 267	1319 [11671] 260	1694 [14992] 252	279	
			132 [1171] 308	511 [4521] 304	892 [7892] 298	1273 [11267] 291	1649 [14589] 283	310	
		Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐							
		Theoretical Torque - Nm [lb-in]							
		201 [1783]	403 [3565]	806 [7130]	1209 [10695]	1611 [14260]	2014 [17825]	2417 [21390]	
		Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]							

		Pressure - bar [psi]					Max. Cont.	Max. Inter.
910		17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]	207 [3000]
911 cm ³ [55.6 in ³] / rev		Intermittent Ratings - 10% of Operation						
Flow - lpm [gpm]	Max. Max. Inter. Cont.	Torque - Nm [lb-in], Speed rpm						
		210 [1860] 7	425 [3761] 7	842 [7455] 6	1245 [11022] 5			9
		221 [1955] 24	451 [3989] 23	905 [8005] 21	1334 [11807] 17	1737 [15368] 8		25
		218 [1931] 48	456 [4036] 47	929 [8223] 45	1389 [12295] 42	1826 [16161] 36	2224 [19682] 13	50
		205 [1812] 73	445 [3937] 72	924 [8174] 69	1395 [12346] 66	1855 [16415] 59	2277 [20148] 53	75
		182 [1607] 97	421 [3728] 97	901 [7969] 94	1376 [12174] 89	1841 [16295] 83	2290 [20265] 74	100
		145 [1282] 122	381 [3376] 122	858 [7591] 119	1330 [11766] 114	1795 [15881] 107	2248 [19895] 99	125
		90 [797] 148	318 [2813] 146	784 [6938] 142	1244 [11010] 136	1701 [15056] 128	2146 [18995] 119	150
		54 [478] 173	279 [2465] 171	740 [6553] 167	1202 [10633] 160	1658 [14668] 152	2105 [18629] 143	175
			233 [2061] 197	691 [6115] 192	1150 [10173] 185	1607 [14220] 177	2060 [18230] 168	2000 [22119] 158
204 [54]	173 [1527] 223	629 [5569] 219	1088 [9628] 212	1546 [13682] 203	2001 [17705] 194	2447 [21656] 184	225	
227 [60]	113 [998] 250	571 [5056] 244	1028 [9095] 236	1485 [13145] 228	1946 [17223] 219		250	
Rotor Width		Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐						
Theoretical Torque - Nm [lb-in]								
78.9 [3.106]		250 [2213]	500 [4426]	1000 [8852]	1500 [13278]	2001 [17704]	2501 [22130]	3001 [26557]
mm [in]		Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]						

► Performance data is typical. Performance of production units varies slightly from one motor to another. See page 10.03 for additional information on product testing.

D9 Series



Heavy Duty Hydraulic Motor

D9 (All Series)
For Heavy Duty Applications

DISPLACEMENT PERFORMANCE

		Pressure - bar [psi]				Max. Cont.	Max. Inter.
1K0		17 [250]	35 [500]	69 [1000]	104 [1500]	138 [2000]	173 [2500]
1027 cm ³ [62.7 in ³] / rev							
		Torque - Nm [lb-in], Speed rpm				Intermittent Ratings - 10% of Operation	
Flow - lpm [gpm]	8 [2]	227 [2006] 7	467 [4134] 6	945 [8363] 6	1416 [12528] 6	1884 [16673] 5	8
	23 [6]	239 [2118] 21	495 [4380] 21	1000 [8851] 20	1487 [13156] 16	1947 [17228] 9	23
	45 [12]	238 [2102] 43	503 [4454] 42	1030 [9111] 41	1544 [13666] 39	2013 [17815] 19	45
	68 [18]	225 [1988] 65	494 [4373] 64	1029 [9105] 63	1556 [13770] 60	2055 [18186] 55	67
	91 [24]	198 [1753] 86	467 [4135] 86	1007 [8911] 84	1539 [13615] 81	2048 [18127] 75	89
	114 [30]	167 [1479] 108	437 [3871] 108	978 [8651] 106	1512 [13384] 103	2037 [18025] 97	111
	136 [36]	129 [1139] 131	399 [3527] 130	940 [8319] 128	1477 [13069] 124	2004 [17733] 118	133
	159 [42]	87 [773] 153	353 [3124] 152	894 [7910] 150	1432 [12671] 146	1964 [17381] 140	155
	182 [48]		303 [2684] 175	844 [7472] 172	1383 [12241] 168	1917 [16964] 162	177
	204 [54]		246 [2180] 197	785 [6950] 195	1324 [11718] 190	1856 [16429] 184	199
Max. Max. Inter. Cont.	227 [60]		183 [1617] 220	723 [6400] 217	1260 [11150] 213	1793 [15872] 206	222
Rotor Width		Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐					
88.9 [3.502]		Theoretical Torque - Nm [lb-in]					
mm [in]		282 [2495]	564 [4990]	1128 [9981]	1692 [14971]	2256 [19961]	2820 [24952]
		Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]					

► Performance data is typical. Performance of production units varies slightly from one motor to another. See page 10.03 for additional information on product testing.

D9 Series

Heavy Duty Hydraulic Motor



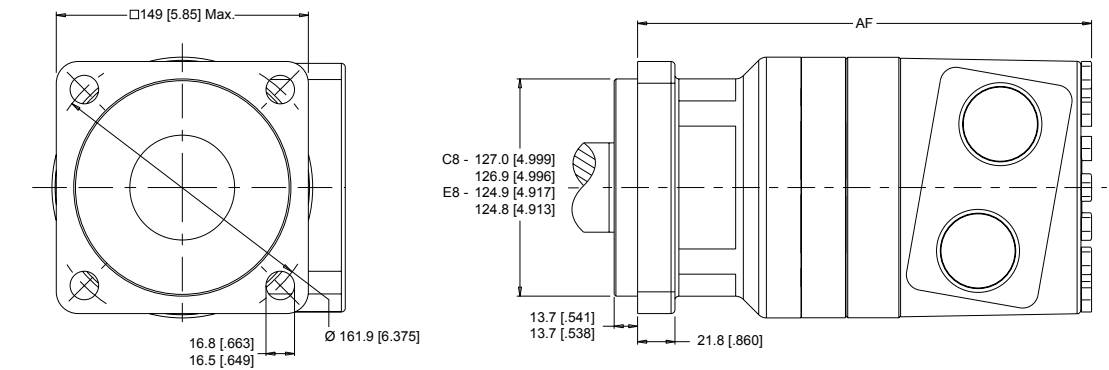
D9 (800 Series) Hydraulic Motor

HOUSINGS

► Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

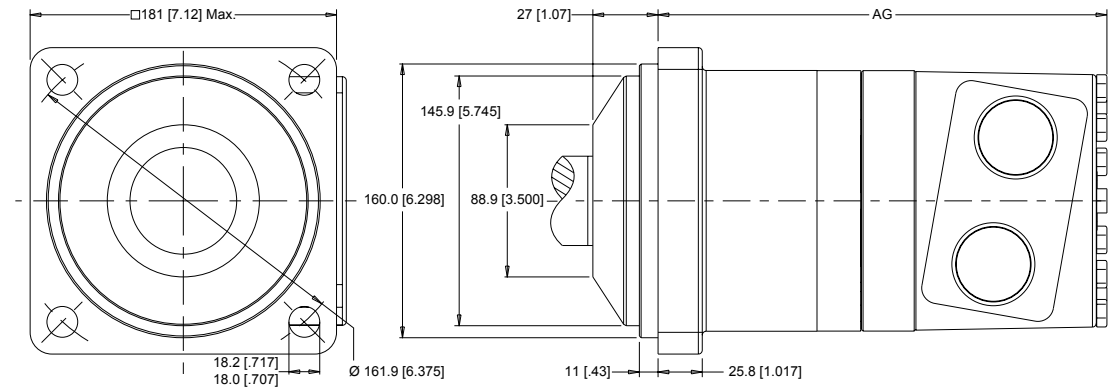
4-HOLE, SAE C MOUNT

C8 Side Ports **E8** Side Ports



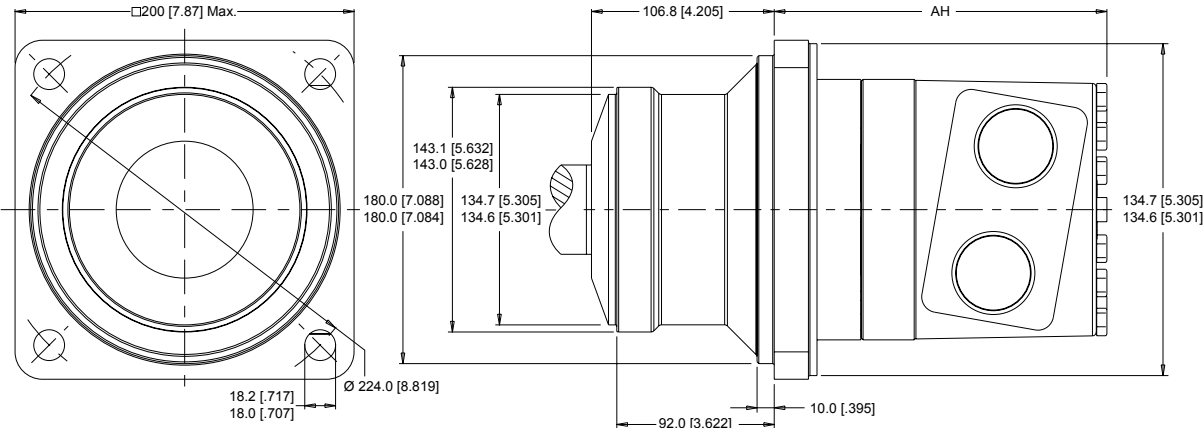
4-HOLE, WHEEL MOUNT WITH 160mm PILOT

D8 Side Ports



4-HOLE, WHEEL MOUNT

W8 Side Ports



► Dimensions AF, AG & AH are charted on page 10.174. Porting options listed on pages 10.175-10.176.

D9 Series

Heavy Duty Hydraulic Motor



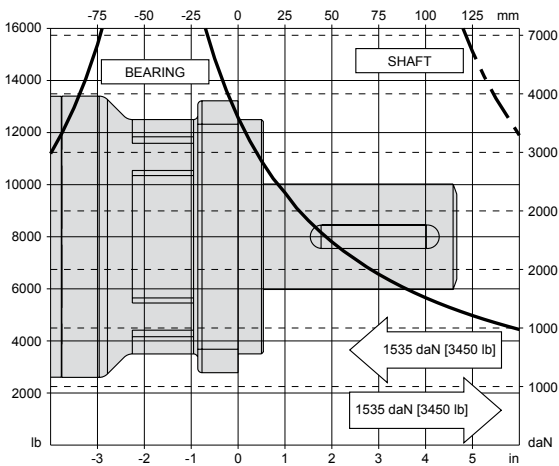
D9 (800 Series) Hydraulic Motor

TECHNICAL INFORMATION

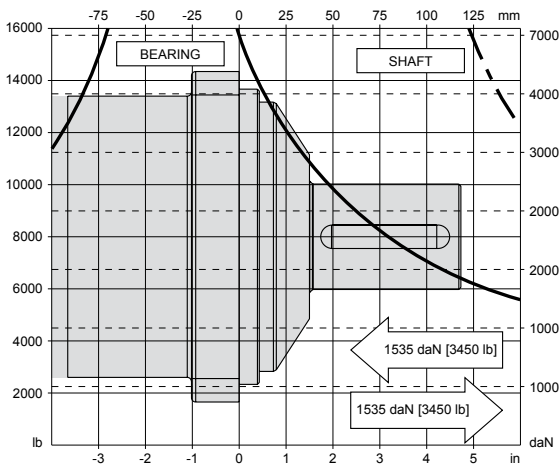
ALLOWABLE SHAFT LOAD / BEARING CURVE

The bearing curve represents allowable bearing loads based on ISO 281 bearing capacity for an L_{10} life of 2,000 hours at 100 rpm. Radial loads for speeds other than 100 rpm may be calculated using the multiplication factor table on page 10.04.

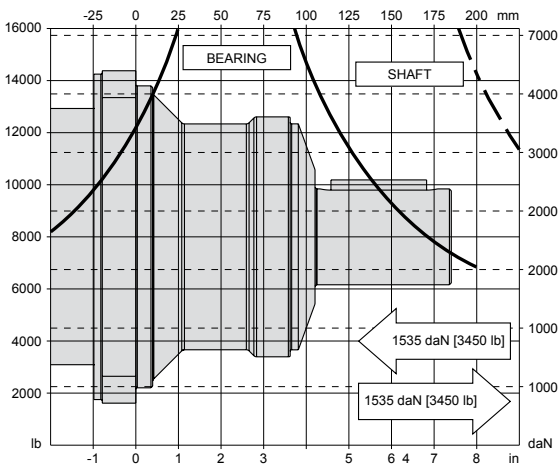
SAE C MOUNTS



160mm PILOT WHEEL MOUNTS



WHEEL MOUNTS



LENGTH & WEIGHT CHARTS

Dimensions AF, AG & AH are the overall motor lengths from the rear of the motor to the mounting surface and are referenced on detailed drawings listed on page 10.173.

AF	Length	Weight
#	mm [in]	kg [lb]
260	255 [10.03]	32.0 [70.5]
300	258 [10.16]	32.5 [71.4]
375	264 [10.41]	33.2 [73.1]
450	272 [10.71]	34.1 [75.1]
525	278 [10.95]	34.9 [76.8]
625	287 [11.29]	35.9 [78.9]
735	296 [11.66]	37.0 [81.4]
910	311 [12.26]	38.8 [85.4]
1K0	322 [12.67]	40.0 [88.0]

AH	Length	Weight
#	mm [in]	kg [lb]
260	184 [7.26]	37.7 [83.0]
300	188 [7.39]	38.1 [83.9]
375	194 [7.64]	38.9 [85.6]
450	202 [7.94]	39.8 [87.6]
525	208 [8.18]	40.6 [89.2]
625	216 [8.51]	41.6 [91.4]
735	226 [8.89]	42.7 [93.9]
910	241 [9.49]	44.5 [97.9]
1K0	251 [9.89]	45.7 [100.5]

AG	Length	Weight
#	mm [in]	kg [lb]
260	252 [9.93]	37.6 [82.8]
300	256 [10.06]	38.0 [83.7]
375	262 [10.31]	38.8 [85.4]
450	269 [10.61]	39.7 [87.4]
525	276 [10.85]	40.5 [89.0]
625	284 [11.19]	41.5 [91.2]
735	294 [11.56]	42.6 [93.7]
910	309 [12.16]	44.4 [97.7]
1K0	319 [12.57]	45.6 [100.3]

► All D9 series motor weights can vary ± 2.3 kg [5 lb] depending on model configurations such as housing, shaft, endcover, options etc.

D9 Series

Heavy Duty Hydraulic Motor



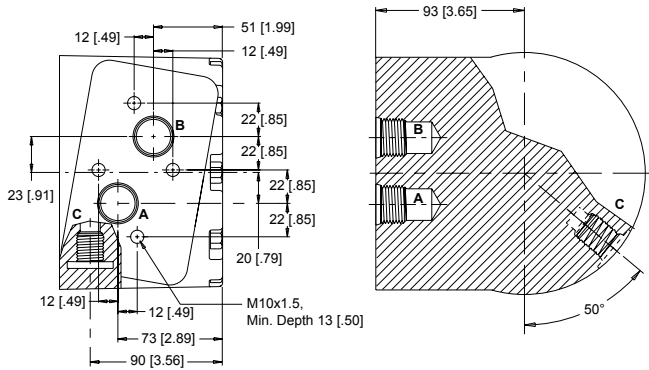
D9 (800 Series) Hydraulic Motor

PORTING

► Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

SIDE PORTED - OFFSET MANIFOLD

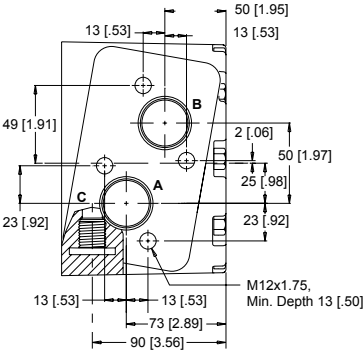
7 Main Ports **A, B:** G 3/4
Drain Port **C:** G 1/4



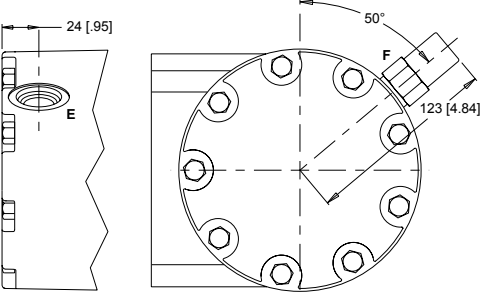
SIDE PORTED - OFFSET MANIFOLD

8 Main Ports **A, B:** G 1
Drain Port **C:** G 1/4

STANDARD



OPTIONAL

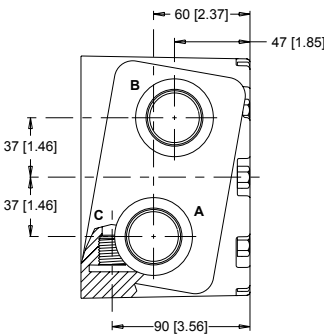


E: 10 Series/2-Way Valve Cavity 7/8-14 UNF F: Valve Cartridge Installed

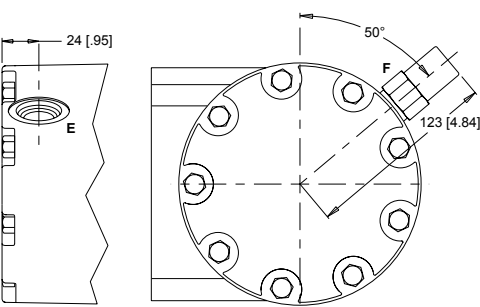
SIDE PORTED - OFFSET

9 Main Ports **A, B:** 1 5/16-12 UNF
Drain Port **C:** 3/4-16 UNF

STANDARD



OPTIONAL



E: 10 Series/2-Way Valve Cavity 7/8-14 UNF F: Valve Cartridge Installed

D9 Series

Heavy Duty Hydraulic Motor



D9 (800 Series)

Hydraulic Motor

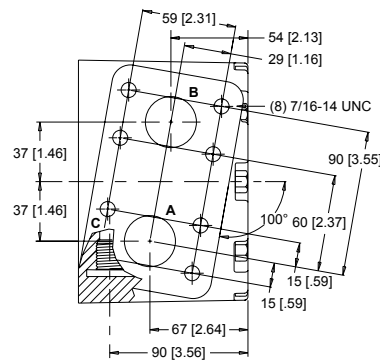
PORTING

► Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

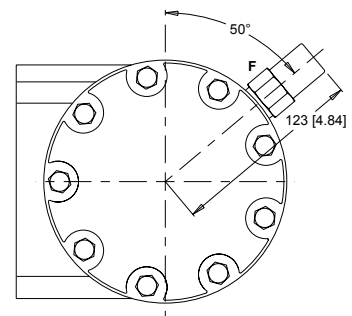
SIDE PORTED - SPLIT FLANGE

0 Main Ports **A, B:** 1-1/4" Drilled
Drain Port **C:** 3/4-16 UNF

STANDARD



OPTIONAL



E: 10 Series/2-Way Valve Cavity 7/8-14 UNF F: Valve Cartridge Installed

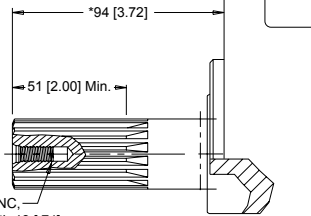
SHAFTS

23 14 Tooth Spline

14 tooth 12/24 Pitch
Std. ANSI B92.1-1996 Spline



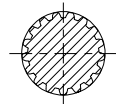
31.7 [1.249]
31.6 [1.245]
3/8-16 UNC,
Min. Depth 19 [.74]



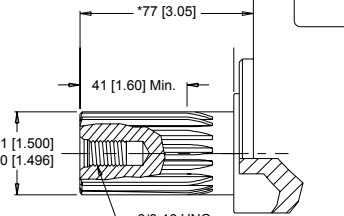
Max. Torque: 2070 Nm [18400 lb-in]

33 17 Tooth Spline

17 tooth 12/24 Pitch
SAE Std. Spline

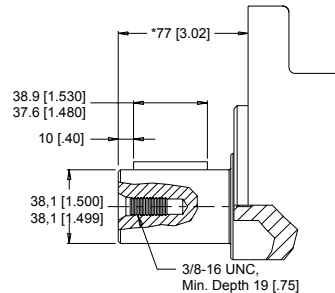
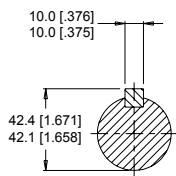


38.1 [1.500]
38.0 [1.496]
3/8-16 UNC,
Min. Depth 19 [.75]



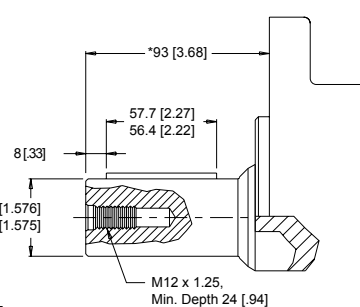
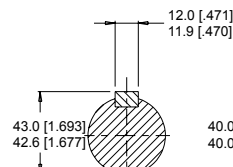
Max. Torque: 2250 Nm [19900 lb-in]

30 1-1/2" Straight



Max. Torque: 2230 Nm [19800 lb-in]

36 40mm Straight



Max. Torque: 3950 Nm [35000 lb-in]

► *Shaft lengths may vary ± 0.8 [.030]

D9 Series

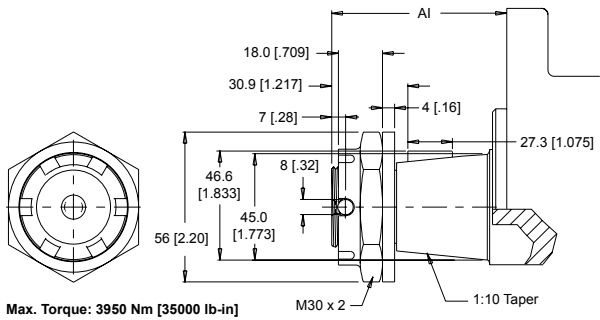
Heavy Duty Hydraulic Motor



D9 (800 Series) Hydraulic Motor

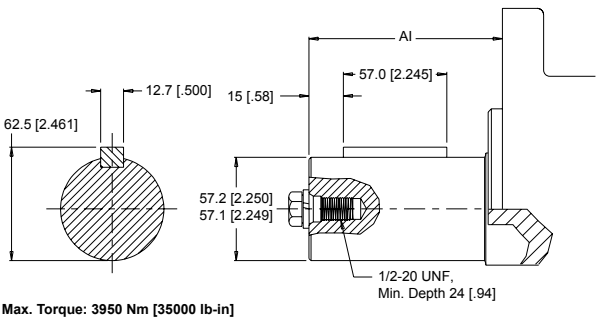
SHAFTS

38 45mm Tapered



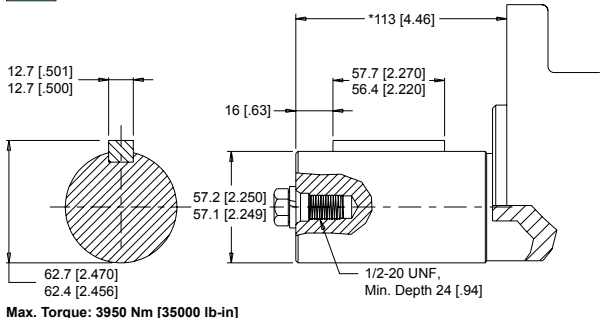
Max. Torque: 3950 Nm [35000 lb-in]

47 2-1/4" Straight Extended



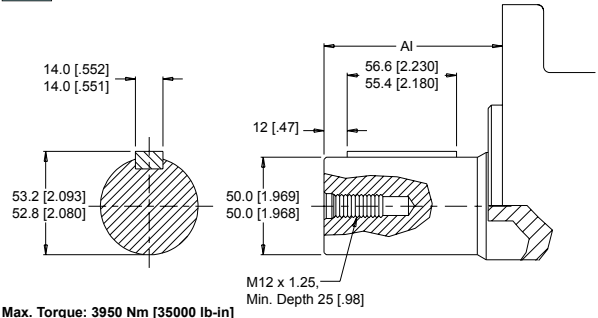
Max. Torque: 3950 Nm [35000 lb-in]

40 2-1/4" Straight



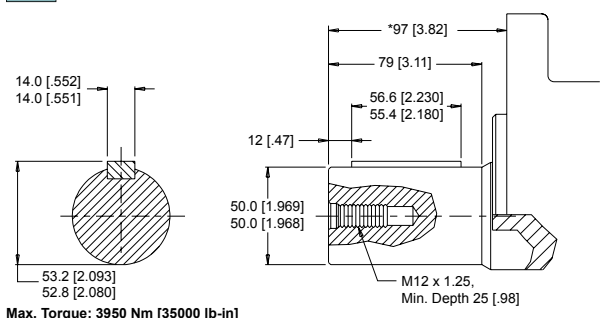
Max. Torque: 3950 Nm [35000 lb-in]

68 50mm Straight Extended



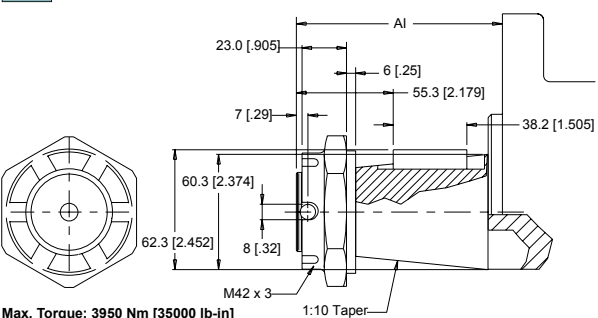
Max. Torque: 3950 Nm [35000 lb-in]

41 50mm Straight



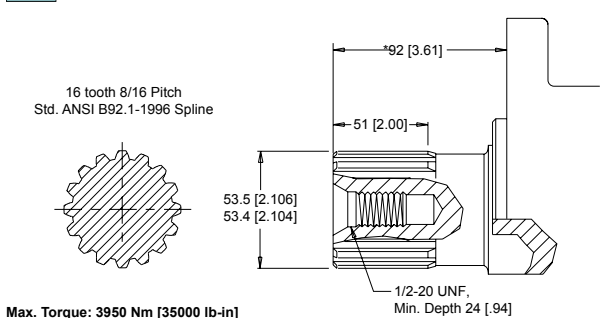
Max. Torque: 3950 Nm [35000 lb-in]

D3 60mm Tapered



Max. Torque: 3950 Nm [35000 lb-in]

42 16 Tooth Spline



Max. Torque: 3950 Nm [35000 lb-in]

MOUNTING / SHAFT LENGTH CHART

Dimension AI is the overall distance from the motor mounting surface to the end of the shaft and is referenced on detailed shaft drawings above.

► Shaft lengths vary ± 0.8 [.030]. The 38, 47, 68 & D3 shafts are only available on wheel mounts. All other shafts are only available on SAE C mounts.

AI	D8 Wheel Mounts	W8 Wheel Mounts
#	mm [in]	mm [in]
38	121 [4.78]	189 [7.45]
47	120 [4.73]	188 [7.40]
68	120 [4.73]	188 [7.40]
D3	144 [5.67]	212 [8.34]

D9 Series

Heavy Duty Hydraulic Motor



D9 (800 Series)

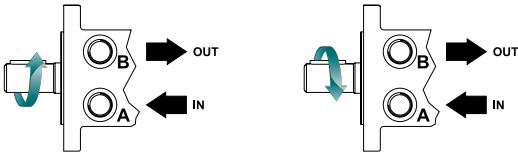
Hydraulic Motor

ORDERING INFORMATION

1			2			3a	

1. CHOOSE SERIES DESIGNATION

800 Counterclockwise Rotation **801** Clockwise Rotation



► The 800 & 801 series are bi-directional. Reversing the inlet hose will reverse shaft rotation.

2. SELECT A DISPLACEMENT OPTION

260	256 cm ³ /rev [15.6 in ³ /rev]	625	623 cm ³ /rev [38.1 in ³ /rev]
300	294 cm ³ /rev [17.9 in ³ /rev]	735	734 cm ³ /rev [44.8 in ³ /rev]
375	367 cm ³ /rev [22.4 in ³ /rev]	910	911 cm ³ /rev [55.6 in ³ /rev]
450	455 cm ³ /rev [27.8 in ³ /rev]	1K0	1027 cm ³ /rev [62.7 in ³ /rev]
525	525 cm ³ /rev [32.1 in ³ /rev]		

3a. SELECT MOUNT TYPE

▼ SIDE MOUNTS

C8	SAE C Mount (5" Pilot)
D8	Wheel Mount (160mm Pilot)
E8	SAE C Mount (125mm Pilot)
W8	Wheel Mount

3b. SELECT PORT SIZE

▼ SIDE PORT OPTIONS

0	1 1/4-12 UNF Split Flange
7	G 3/4 Offset Manifold
8	G 1 Offset Manifold
9	1 5/16-12 UNF, Offset

3b	4	5	6	7	8		

4. SELECT A SHAFT OPTION

23	14 Tooth Spline	41	50mm Straight
30	1-1/2" Straight	42	16 Tooth Spline
33	17 Tooth Spline	47	2-1/4" Straight Extended
36	40mm Straight	68	50mm Straight Extended
38	45mm Tapered	D3	60mm Tapered
40	2-1/4" Straight		

► The 38, 47, 68 & D3 shafts are available on wheel mounts only. All other shafts are available on SAE C mounts only.

5. SELECT A PAINT OPTION

A	Black
B	Black, Unpainted Mounting Surface
Z	No Paint

6. SELECT A VALVE CAVITY / CARTRIDGE OPTION

A None

7. SELECT AN ADD-ON OPTION

A Standard

8. SELECT A MISCELLANEOUS OPTION

AA None